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DATE: May 12, 2004

TO: Examiner Hung T. Vy
GAU: 2828

FAX NO.: 703-872-9306

FROM: Jeffrey S. Abel

RE U.S. App. No.: 09/863,013, Filed May 22, 2001

Allowed: March 17, 2004

Applicant(s): Milan R. Kokta, et al.

Atty Dkt No.: 1035-BI3918-US

Title: COBALT-DOPED SATURABLE ABSORBER Q-SWITCHES AND
LASER SYSTEMS

NO. OF PAGES (including Cover Sheet): 8

MESSAGE:

Attached please find:

- ☒ Transmittal Form (1 pg)
- ☒ Rule 312 Communication w/Attachments (6 pgs)

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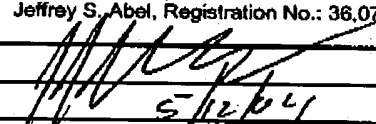
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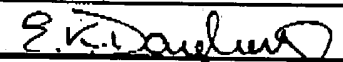
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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	09/863,013	
	Filing Date	May 22, 2001	
	First Named Inventor	Milan R. Kokta, et al.	
	Art Unit	2828	
	Examiner Name	Hung T. Vy	
Total Number of Pages in This Submission	7	Attorney Docket Number	1035-BI3918-US

ENCLOSURES (Check all that apply)		
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Firm or Individual name	Jeffrey S. Abel, Registration No.: 36,079
Signature	
Date	5/12/04

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PATENT
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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Milan R. Kokta, et al.

Title: COBALT-DOPED SATURABLE ABSORBER Q-SWITCHES AND LASER SYSTEMS

App. No.: 09/863,013

Filed: May 22, 2001

Examiner: Hung T. Vy

Group Art Unit: 2828

Customer No.: 34456

Confirmation No.: 7269

Atty. Dkt. No.: 1035-BI3918-US

Allowed: March 17, 2004

OFFICIAL

Commissioner for Patents
PO Box 1450
Alexandria, VA 22313-1450

RULE 312 COMMUNICATION

Dear Sir:

The Notice of Allowance dated March 17, 2004 is acknowledged and appreciated.

Applicants filed an Information Disclosure Statement on November 13, 2001. The Examiner has partially considered this Information Disclosure Statement, and complete consideration is respectfully requested. In addition, Supplemental Information Disclosure Statements were filed on July 1, 2003 and January 21, 2004. Consideration of these Information Disclosure Statements is also respectfully requested. For the Examiner's convenience, a copy of the corresponding Form PTO-1449's are enclosed herewith.

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Applicants do not believe that any additional fees are due, but if the Commissioner believes additional fees are due, the Commissioner is hereby authorized to charge any fees that may be required, or credit any overpayment, to Deposit Account Number 50-2469.

Respectfully submitted,

Date

5/12/04


Jeffrey S. Abel, Reg. No. 36,079
Attorney for Applicant(s)
TOLER, LARSON & ABEL, L.L.P.
Customer No.: 34456
(512) 327-5515 (phone)
(512) 327-5452 (fax)

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Sheet 1 of 1

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PTO-1419 REPRODUCED		JAN 10 2007 PATENT & TRADEMARK OFFICE		ATTORNEY DOCKET NO. 3177.1000-000		APPLICATION NO. 09/863,013	
INFORMATION DISCLOSURE CITATION IN AN APPLICATION				APPLICANT Milan R. Kokta, et al.			
November 1, 2001 (Use several sheets if necessary)				FILING DATE May 22, 2001		GROUP 2881	
U.S. PATENT DOCUMENTS							
EXAM- INER INI- TIAL		DOCUMENT NUMBER	DATE	NAME	CLASS	SUB- CLASS	FILING DATE IF APPROPRIATE
HV	AA	5,654,973	Aug. 5, 1997	Stultz, et al.	372	10	
HV	AB	5,982,796	Nov. 9, 1999	Kokta, et al.	372	41	
	AC						
FOREIGN PATENT DOCUMENTS							
		DOCUMENT NUMBER	DATE	COUNTRY	CLASS	SUB- CLASS	TRANSLATION YES NO
	AL						
	AM						
	AN						
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
	AR	Camargo, M.B., et al., "Co ²⁺ :Y,Sc ₂ Ga ₃ O ₁₂ (YSGG) Passive Q-switch for Infrared Erbium Lasers," submitted to <i>LEOS</i> in 1994.					
	AS	Mikhailov, V.P., et al., "Passive Q-switch performance at 1.3 μ (1.5 μ) and nonlinear spectroscopy of Co ²⁺ :MgAl ₂ O ₄ and Co ²⁺ :LaMgAl ₁₁ O ₁₉ crystals," <i>OSA TOPS Vol. 26 Advanced Solid-State Lasers</i> , pp 317-324 (1999).					
HV	AT	Yumashev, K.V., "Saturable absorber Co ²⁺ :MgAl ₂ O ₄ crystal for Q switching of 1.34-μm Nd ³⁺ :YAIO ₃ and 1.54-μm Er ³⁺ :glass lasers," <i>Applied Optics</i> , 38(30):6343-6346 (20 Oct 1999).					
	AU	Stulz, R.D., et al., "Divalent Uranium and Cobalt Saturable Absorber Q-Switches at 1.5 μm," <i>OSA Proceedings on Advanced Solid-State Lasers</i> , 24:460-464 (1995).					
HV	AV	Birnbaum, M., et al., "Co ²⁺ :ZnSe Saturable Absorber Q-switch for the 1.54 μm Er ³⁺ :Yb ³⁺ :Glass Laser," <i>OSA TOPS Vol. 10 Advanced Solid State Lasers</i> , pp 148-151 (1997).					
	AW	Machida, H. and Fukuda, T., "Difficulties encountered during the Czochralski growth of TiO ₂ single crystals," <i>Journal of Crystal Growth</i> , 112:835-837 (1991).					
	AX	Camargo, M.B., et al., "Broad-band 1.54 μm Saturable Absorber Q-switch with Co ²⁺ ," submitted to <i>ASSL</i> in 1995.					
HV	AY	Yumashev, K.V., et al., "Nonlinear spectroscopy and passive Q-switching operation of a Co ²⁺ :LaMgAl ₁₁ O ₁₉ crystal," <i>J. Opt. Soc. Am. B</i> , 16(12):2189-2194 (1999).					
EXAMINER				DATE CONSIDERED			
Jlee				10/24/02			

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Sheet 1 of 2

PTO-1416 REPRODUCED SECOND SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION June 24, 2003 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3177.1000-000		APPLICATION NO. 09/863,013	
	APPLICANT Milan R. Kokta, <i>et al.</i>			
	FILING DATE May 22, 2001		CONFIRMATION NO. 7269	GROUP 2828

[illegible]

EXAMINER	DATE CONSIDERED
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Sheet 2 of 2

SECOND SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION

June 24, 2003

(Use several sheets if necessary)

ATTORNEY DOCKET NO.
3177.1000-000

APPLICATION NO.
09/863,013

APPLICANT
Milan R. Kokta, *et al.*

FILING DATE
May 22, 2001

CONFIRMATION NO.
7269

GROUP
2828

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)

AT4 Kuleshov, N.V., *et al.*, "Co-Doped Spinel: Promising Materials for Solid State Lasers," *SPIE*, 2138:175-182, (1994).

AU4 Kuleshov, N.V., *et al.*, "Absorption and Luminescence of Tetrahedral Co^{2+} ion in MgAl_2O_4 ," *Journal of Luminescence*, 55:265-269, (1993).

AV4 Yumashev, K. V., *et al.*, "Passive Q-Switching of 1.34- μm Neodymium Laser Using $\text{Co}^{2+}:\text{LiGa}_3$ and $\text{Co}^{2+}:\text{MgAl}_2\text{O}_4$," Poster presented at CLEO/Europe-IQEC Technical Program, September 2000. IEEE Conference Digest for 2000 Conference on Lasers and Electro-Optics Europe, September 2000, Poster No. CTuK39.

AW4 Yumashev, K.V., *et al.*, "Co²⁺-Doped Spinel Saturable Absorber Q-Switches for 1.3-1.6 μ m Solid State Lasers," *OSA Trends in Optics and Photonics. Advanced Solid State Lasers*, 34:236-239, Proceedings of Topical Meeting on Advanced Solid-State Laser (ASSL 2000).

EXAMINER

DATE CONSIDERED

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(WED) MAY 12 2004 16:06/ST. 16:04/No. 6800090285 P 8

Sheet 1 of 1

PTO-1449 REPRODUCED SUPPLEMENTAL INFORMATION DISCLOSURE CITATION IN AN APPLICATION January 21, 2004 (Use several sheets if necessary)	ATTORNEY DOCKET NO. 3177.1000-000		APPLICATION NO. 09/863,013	
	FIRST NAMED INVENTOR Milan R. Kokta		FILING DATE May 22, 2001	
	EXAMINER Hung T. Vy	CONFIRMATION NO. 7269	GROUP 2828	

U.S. PATENT DOCUMENTS				
EXAM- INER INI- TIAL	REF. NO.	DOCUMENT NUMBER Number-Kind Code (if known)	ISSUE DATE / PUBLICATION DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT
	AJ	3,883,313	05-13-1975	Cullen <i>et al.</i>
	AK	4,627,064	12-02-1986	Auzel <i>et al.</i>
	AA2	4,963,520	10-16-1990	Yoo <i>et al.</i>
	AB2	5,530,267	06-25-1996	Brandle, Jr. <i>et al.</i>
	AC2	6,104,529	08-15-2000	Brandle, Jr. <i>et al.</i>

FOREIGN PATENT DOCUMENTS					
		DOCUMENT NUMBER Country Code-Number-Kind Code (if known)	DATE MM-DD-YYYY	NAME OF PATENTEE OR APPLICANT OF CITED DOCUMENT	TRANSLATION YES NO
	AL	EP 0 148 656 A1	07-17-1985	Auzel <i>et al.</i>	X

OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)	
AX4	Haisma, J., <i>et al.</i> , "Lattice-Constant-Adaptable Crystallographics," <i>Journal of Crystal Growth</i> , 102:979-993 (1990).
AY4	Nikishin, S.A., <i>et al.</i> , "Gas Source Molecular Beam Epitaxy of GaN with Hydrazine on Spinel Substrates," <i>Applied Science Letters</i> , American Institute of Physics, 72:2361-2363 (1998).
AZ4	Tamura, K., <i>et al.</i> , "Epitaxial Growth of ZnO Films on Lattice-Matched ScAlMgO ₄ (0001) Substrates," <i>Journal of Crystal Growth</i> , 214-215:59-62 (2000).
AR5	Wyon, C., <i>et al.</i> , "Czochralski Growth and Optical Properties of Magnesium-Aluminum Spinel Doped with Nickel," <i>Journal of Crystal Growth</i> , 79:710-713 (1986).

EXAMINER

DATE CONSIDERED